

PRODUCTION OF LUMINOUS ARTIFICIAL YARN, ROPE, NET AND LOOPED AND STRAIGHT HAIRY TURF

Patent Number: JP9111531

Publication date: 1997-04-28

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Requested Patent: ☐ JP9111531

Application

Number: JP19950300372 19951013

Priority Number(s):

IPC Classification: D01F1/10; A47G27/02; A47G27/02; A47G27/02; B32B5/00; B32B27/20; D01F6/06; D01F6/60; E01C13/08

EC Classification:

Equivalents:

Abstract

PROBLEM TO BE SOLVED: To produce an artificial yarn, rope, net and looped and straight hairy turf, reactive with irradiation of black light or ultraviolet rays and emitting light.

SOLUTION: Respective colors produced by mixing at least 1.0-10.0wt.% respective three colors of fluorescent luminous substances made of metals (blue BaMg₂.Al₁₆.O₂₇ : Eu; green BaMg₂.Al₁₆.O₂₇ : EuMn; red Y₂.O₂S : Eu) as bases with a synthetic resin such as nylon or polypropylene. The resultant artificial yarn, rope, net and looped and straight hairy turf substrate are then irradiated with ultraviolet rays to provide light emission.

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